FORM A

HW#61A: Review

Due Date: Tuesday, February 4th, 2014

Name: _____ TP: _____

Failure to show work on all problems or use complete sentences will result in a LaSalle.

1) The circumference of a circle is 30 inches. What is the radius?

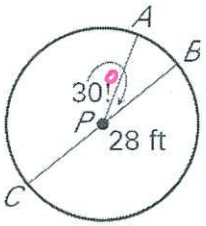
$2\pi r = 30$ *Solve for r!

2) The diameter of a circle is 10 cm. What is the circumference?

$d = 10\text{cm}$ $C = 2\pi r$

*If $d = 10$, $r = ?$

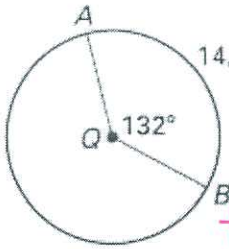
3) Find the length of arc AB.



$\text{Arc}AB = 2\pi r \cdot \frac{\theta}{360}$

*Substitute in the radius & θ, the portion.

4) Find the measurement and length of the arc AXB.



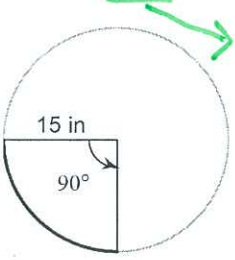
a) Measurement = DEGREES of arc

b) Length (follow formula from #3)

4) a. Find the arc length of the circle below

b. Find area of sector

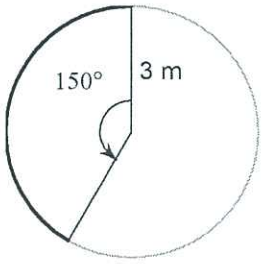
$A = \pi r^2 \cdot \frac{\theta}{360}$



a) Use notes from #3 & #4 to help.

5) a. Find the arc length of the circle below

b. Find area of sector



*use notes from above.

STAY READY.

S·T·R·E·T·C·H·I·T·O·U·T

6) Simplify: $\frac{3h^6j^3}{12h^{-2}j}$

*Negative exponents move! Take reciprocal

7) Simplify: $(-10j^3h)^2$

*Multiply the outter exponent to EACH term on the inside.

8) Generate a linear question for the line that passes through points (2,1) and (6, 3) and write it in the following three forms.

$x_1\ y_1 \quad x_2\ y_2$

*Find slope first!

$\frac{y_2-y_1}{x_2-x_1} =$

a) Point-Slope Form: $y-y_1=m(x-x_1)$

$y-1=\square(x-2)$

b) Standard Form: $Ax+By=C$

→ Now, solve for "x+y" on the left & the constant (#) on the right.

c) Slope-Intercept Form: $y=mx+b$

→ Now, solve for y!

STAY READY.